

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A data recording device for recording data on an optical disc by irradiating a laser pulse on the optical disc while controlling rotation of the optical disc at a constant angular velocity, wherein absolute time information is recorded on the optical disk, and the optical disk has a wobble component, the device comprising:

a clock generating circuit for generating a clock using ~~a value relating to a linear velocity~~ the wobble component of the optical disc at a position at which the laser pulse is irradiated;
[[and]]

a detection circuit for detecting the absolute time information recorded on the optical disk; and

a laser condition varying unit that changes a peak value of the laser pulse in accordance with the ~~value relating to the linear velocity~~ absolute time information of the optical disc at a position at which the laser pulse is irradiated, ~~wherein the laser condition varying unit further alters at least one of a pulse timing and a pulse width of the laser pulse based on the clock.~~

2. (Original) The data recording device according to claim 1, further comprising:

a feedback unit for receiving reflection light of the laser pulse irradiated on the optical disc and feedback controlling the peak value of the laser pulse;

wherein the laser condition varying unit prohibits the feedback controlling of the feedback unit for a predetermined period after the peak value of the laser pulse has been altered.

3. (Original) The data recording device according to claim 1, wherein the laser condition varying unit changes a method for altering the peak value of the laser pulse in accordance with the type of optical disc.

4. (Original) The data recording device according to claim 3, wherein the laser condition varying unit receives a write strategy specifying value that contains information for altering the peak value of the laser pulse from an external device.

5. (Currently Amended) The data recording device according to claim 4, wherein ~~absolute time information that contains recorded data position information is recorded on the optical disc, and wherein~~ the laser condition varying unit ~~detects the value relating to the linear velocity based on the absolute time information,~~ calculates a predetermined time using the absolute time information, and alters the peak value of the laser pulse using the write strategy specifying value every calculated predetermined time.

6. (Currently Amended) A data recording device for recording data on an optical disc by irradiating a laser pulse on the optical disc while controlling rotation of the optical disc at a constant angular velocity, wherein absolute time information is recorded on the optical disk, and the optical disk has a wobble component, the device comprising:

a clock generating circuit for generating a clock using ~~a value relating to a linear velocity~~ [[ef]] the wobble component the optical disc at a position at which the laser pulse is irradiated; [[and]]

a detection circuit for detecting the absolute time information recorded on the optical disk; and

a laser condition varying unit for altering at least one of a pulse timing and a pulse width of the laser pulse based on the [[e]eek]] absolute time information.

7. (Original) The data recording device according to claim 6, wherein the laser condition varying unit changes a method for altering at least one of a pulse timing and a pulse width of the laser pulse in accordance with the type of optical disc.

8. (Original) The data recording device according to claim 7, wherein the laser condition varying unit receives a write strategy specifying value that contains information used

for altering at least one of the pulse timing and the pulse width of the laser pulse from an external device.

9. (Currently Amended) The data recording device according to claim 8, wherein ~~absolute time information that contains recorded data position information is recorded on the optical disc, and wherein the laser condition varying unit detects a value relating to linear velocity based on the absolute time information,~~ calculates a predetermined time using the absolute time information, and alters a peak value of the laser pulse using the write strategy specifying value every calculated predetermined time.

10. (Currently Amended) A data recording device for recording data on an optical disc by irradiating a laser pulse on the optical disc while controlling rotation of the optical disc at a constant angular velocity, wherein absolute time information is recorded on the optical disk, and the optical disk has a wobble component, the device comprising:

a clock generating circuit for generating a clock using ~~a value relating to a linear velocity~~ [(ef)] the wobble component the optical disc at a position at which the laser pulse is irradiated; [(and)]

a detection circuit for detecting the absolute time information recorded on the optical disk; and

a laser condition varying unit for altering a peak value of the laser pulse in accordance with the ~~value relating to the linear velocity~~ absolute time information of the optical disc at a position at which the laser pulse is irradiated;

wherein the laser condition varying unit alters at least one of a pulse timing and a pulse width of the laser pulse based on the ~~clock~~ absolute time information.

11. (Currently Amended) A data recording device for recording data on an optical disc by irradiating a laser pulse on the optical disc while controlling rotation of the optical disc at a constant angular velocity, wherein absolute time information is recorded on the optical disk, and the optical disk has a wobble component, the device comprising:

a clock generating circuit for generating a clock using ~~a value relating to a linear velocity~~

the wobble component of the optical disc at a position at which the laser pulse is irradiated;
a detection circuit for detecting the absolute time information recorded on the optical disk;

a storage device for storing a specifying value specifying at least one of a pulse timing and a pulse width of the laser pulse, wherein the specifying value is set in accordance with a ~~linear velocity~~ the absolute time information of the optical disc at a position at which the laser pulse is irradiated; and

a control unit for reading the specifying value stored in the storage device and altering at least one of the pulse timing and the pulse width of the laser pulse based on ~~the clock~~ and the read specifying value.

12. (Currently Amended) A data recording control device for controlling recording of data on an optical disc while controlling rotation of the optical disc at a constant angular velocity, wherein the date is recorded by irradiating a laser pulse on the optical disc, and wherein a spiral pregroove for recording disc information including absolute time information is formed on the optical disc, and the optical disc has a wobble component, the device comprising:

a detection circuit for reproducing the disc information of the pregroove and detecting a ~~value relating to a linear velocity~~ the absolute time information of the optical disc at a position at which the laser pulse is irradiated in accordance with the reproduced disc information;

a clock generating circuit for generating a clock using the ~~value relating to the linear velocity~~ wobble component of the optical disc;

a strategy specifying circuit connected to the detection circuit for specifying a peak value of the laser pulse in accordance with the ~~detected value~~ absolute time information; and

a laser drive circuit connected to the strategy specifying circuit for altering the peak value of the laser pulse to the specified peak value, ~~wherein the laser drive circuit further alters at least one of a pulse timing and a pulse width of the laser pulse~~ based on the ~~clock~~ absolute time information.

13. (Original) The data recording control device according to claim 12, wherein the laser drive circuit includes:

a target value setting circuit for setting a target peak value used to alter the peak value of the laser pulse;

a sample signal acquisition circuit for receiving a sample signal of a reflection light of the laser pulse from the optical disc;

a control circuit for controlling the peak value of the laser pulse by comparing the target peak value with a value relating to the sample signal of the sample signal acquisition circuit; and

wherein the sample signal acquisition circuit holds a value of the sample signal received before the peak value of the laser pulse is altered for a predetermined time after the peak value of the laser pulse is altered.

14. (Original) The data recording control device according to claim 12, wherein the strategy specifying circuit changes a method for altering the peak value of the laser pulse in accordance with the type of optical disc.

15. (Currently Amended) The data recording control device according to claim 14, further comprising:

a memory connected to the strategy specifying circuit for retrieving and holding information from an external device that relates to a method for altering the peak value of the laser pulse that is specified for each type of optical disc;

wherein the strategy specifying circuit alters the peak value of the laser pulse in accordance with the ~~detection of the detection circuit~~ absolute time information and the information held in the memory.

16. (Currently Amended) The data recording control device according to claim 15, wherein ~~the disc information of the pregroove includes absolute time information that contains recorded data position information, and the absolute time information is a value relating to a linear velocity of the optical disc at a position at which the laser pulse is irradiated, and wherein the detection circuit detects the absolute time information, and the strategy specifying circuit calculates a predetermined time using the absolute time information and alters a peak value of the laser pulse every calculated predetermined time.~~

17. (Currently Amended) A data recording control device for controlling recording of data on an optical disc while controlling rotation of the optical disc at a constant angular velocity, wherein the date is recorded by irradiating a laser pulse on the optical disc, and wherein a spiral pregroove for recording disc information including absolute time information is formed on the optical disc, and the optical disc has a wobble component, the device comprising:

a detection circuit for reproducing the disc information of the pregroove and detecting a ~~value relating to a linear velocity~~ the absolute time information of the optical disc at a position at which the laser pulse is irradiated in accordance with the reproduced disc information;

a clock generating circuit connected to the detection circuit for generating a clock using a ~~value relating to the linear velocity~~ a wobble component of the optical disc at the position at which the laser pulse is irradiated ~~in accordance with the detected value~~;

a strategy specifying circuit connected to the detection circuit for specifying at least one of a pulse width and a pulse timing of the laser pulse in accordance with the ~~detected value~~ absolute time information; and

a laser drive circuit connected to the strategy specifying circuit for altering the at least one of the pulse width and the pulse timing of the laser pulse to the specified at least one of the pulse timing and the pulse width of the laser pulse based on the ~~clock~~ absolute time information.

18. (Original) The data recording control device according to claim 17, wherein the strategy specifying circuit changes a method for altering a peak value of the laser pulse in accordance with the type of optical disc.

19. (Currently Amended) The data recording control device according to claim 18, further comprising:

a memory connected to the strategy specifying circuit for retrieving and holding information from an external device that relates to a method for altering at least one of the pulse width and the pulse timing that is specified for each type of optical disc;

wherein the strategy specifying circuit alters the at least one of the pulse width and the pulse timing of the laser pulse in accordance with the ~~detection~~ absolute time information of the

detection circuit and the information held in the memory.

20. (Currently Amended) The data recording control device according to claim 19, wherein ~~the disc information of the pregroove includes absolute time information that contains recorded data position information, wherein the absolute time information is a value relating to a linear velocity of the optical disc at a position at which the laser pulse is irradiated, the detection circuit detects the absolute time information, and~~ the strategy specifying circuit calculates a predetermined time using the absolute time information and alters at least one of the pulse width and the pulse timing of the laser pulse every calculated predetermined time.

21. (Currently Amended) A data recording control device for controlling recording of data on an optical disc while controlling rotation of the optical disc at a constant angular velocity, wherein the date is recorded by irradiating a laser pulse on the optical disc, and wherein a spiral pregroove for recording disc information including absolute time information is formed on the optical disc, and the optical disc has a wobble component, the device comprising:

a detection circuit for reproducing the disc information of the pregroove and detecting a value relating to a linear velocity the absolute time information of the optical disc at a position at which the laser pulse is irradiated in accordance with the reproduced disc information;

a clock generating circuit connected to the detection circuit for generating a clock using a value relating to the linear velocity the wobble component of the optical disc at the position at which the laser pulse is irradiated in accordance with the ~~detected value~~ absolute time information;

a strategy specifying circuit connected to the detection circuit for specifying a peak value of the laser pulse and at least one of a pulse width and a pulse timing of the laser pulse in accordance with the ~~detected value~~ absolute time information; and

a laser drive circuit connected to the strategy specifying circuit for altering the peak value of the laser pulse based on the specified peak value, wherein the laser drive circuit alters the at least one of the pulse width and the pulse timing of the laser pulse to the specified at least one of the pulse timing and the pulse width of the laser pulse based on the ~~clock~~ absolute time information.